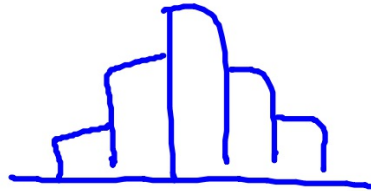


\* **Have HW out- look over answers on desk**

\* **Get lists:** BLK1, BLK2, BLK3, NONSM, SMOKE, SUPER



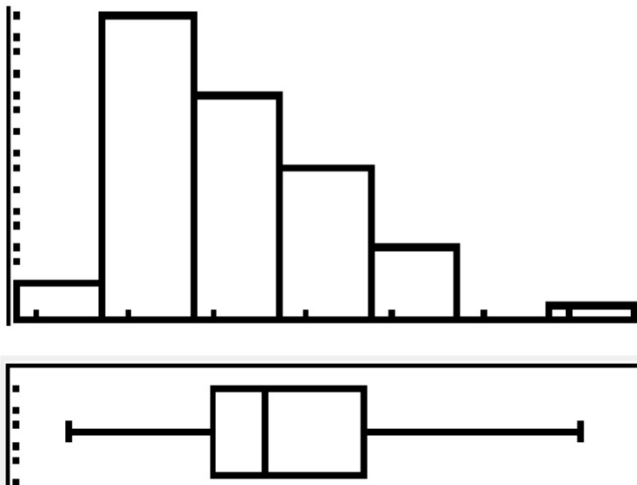
\* **Then do Warm Up:**

1- Complete Ch. 4 & 5 practice worksheet #4 & 5

2- Lists SMOKE and NONSM are lists from HW

problem #32- they are lists of the cholesterol levels of Smokers & Non-Smokers. ***Compare and describe the two sets of data.***

smoke:



Summary Stats- SMOKERS

$$\bar{x} = 237.98$$

$$s = 38.54$$

$$\min = 155$$

$$Q1 = 211$$

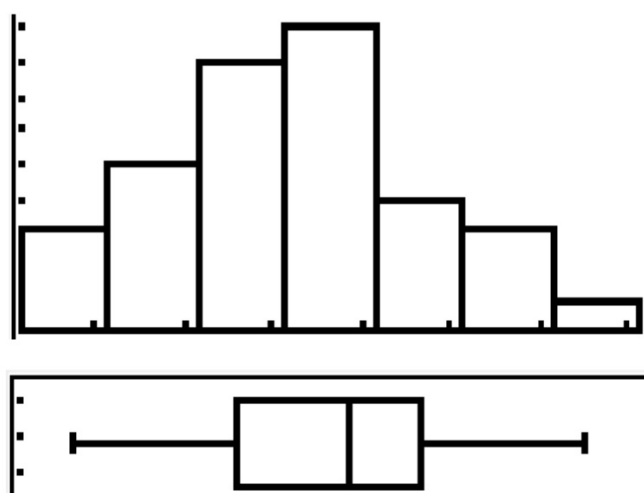
$$\text{Med} = 230$$

$$Q3 = 267$$

$$\text{Max} = 351$$

$$\text{IQR} = 56$$

non-smokers



Summary Stats- NON-SMOKERS

$\bar{x} = 233.06$

$s = 47.68$

$\min = 134$

$Q1 = 196$

$Med = 238$

$Q3 = 265$

$Max = 328$

$IQR = 69$

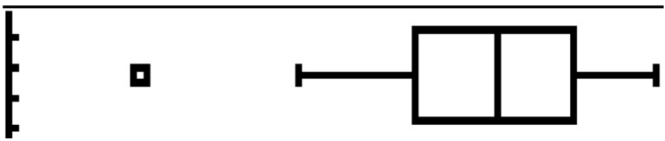
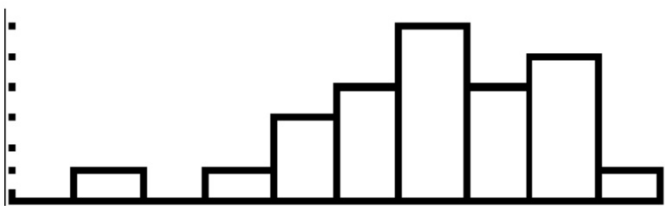
2) The distribution of Smokers is strongly right skewed, whereas the distribution of Non-Smokers is roughly symmetric. Both are unimodal. There is a possible gap around 320 points. *for Smokers.*

The center for the Smokers is at the median of 230 points, while the Non-Smokers median is higher at 238 points.

The spread for the Smokers is the IQR of 56 points, which is lower than the IQR of the Non-Smokers at 69. The range of the Smokers is (155, 351) points, which is roughly the same width as the Non-Smokers range of (134, 328) points.

## Boxplot Exploration

BLK1



min = 4

Q1 = 12.5

Med = 15

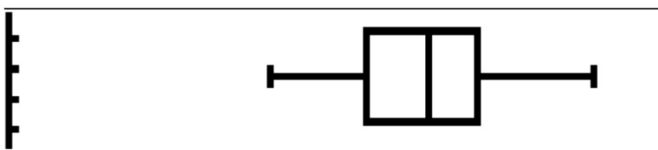
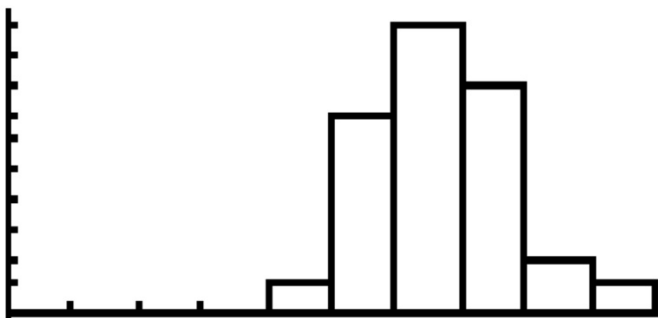
Q3 = 17.5

Max = 20

mean = 14.48

std.dev = 3.676

BLK2



min = 8

Q1 = 11

Med = 13

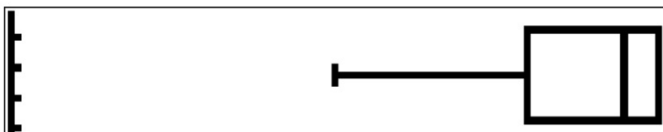
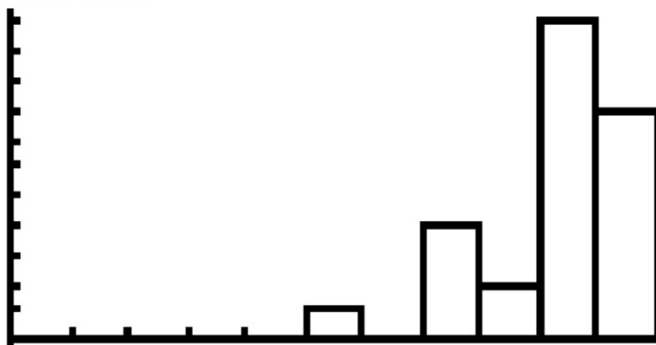
Q3 = 14.5

Max = 18

mean = 12.93

std.dev = 2.154

BLK3



min = 10

Q1 = 16

Med = 19

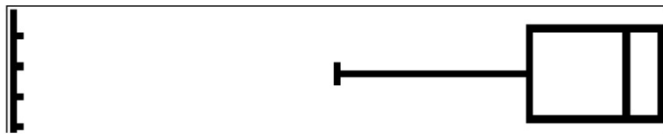
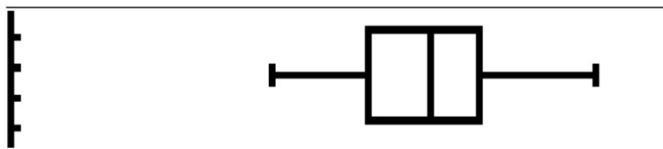
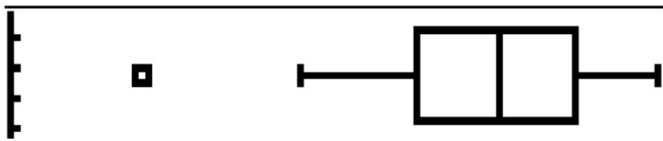
Q3 = 20

Max = 20

mean = 17.923

std.dev = 2.481





Describe:

\* Complete Ch. 4/5 Classwork